

APPENDIX D: PHOTOGRAPHING A GEL		Page 1 of 2
FLUORESCENT DETECTION PCR-BASED STR DNA PROTOCOL:POWERPLEX® 16 BIO SYSTEM - FORENSIC BIOLOGY SECTION PROCEDURE MANUAL, SECTION III		Issue No. 3
		Effective Date: 6-March-2006
APPENDIX D: PHOTOGRAPHING A GEL		
1	EQUIPMENT	
1.1	Transilluminator, UV	
1.2	MP4 Polaroid camera with stand and filter (Wratten 8 or 9)	
1.3	Ultraviolet Viewing Cabinet and Camera	
1.4	FMBIO II Fluorescent Image Analysis System	
2	MATERIALS	
2.1	Black and white Polaroid film, Type 667	
3	PROCEDURE	
	CAUTION: ETHIDIUM BROMIDE IS A MUTAGEN. AVOID DIRECT CONTACT ALWAYS WEAR GLOVES WHEN HANDLING ETHIDIUM BROMIDE AND ETHIDIUM BROMIDE GELS.	
	ALWAYS WEAR UV PROTECTIVE EYE WEAR WHEN USING THE TRANSILLUMINATOR.	
3.1	Photographing a gel with an MP4 Camera	
3.1.1	Place gel (out of its tray) on the UV transilluminator.	
3.1.2	Position the camera and select camera settings according to gel size. The following are suggested, initial settings:	
	1 sec, f/11	
	Make sure the gel is in the field of view. If not, adjust the fine and/or coarse settings accordingly.	
3.1.3	Position filter over lens area.	
3.1.4	Slide camera to the left and take the picture by pressing the shutter release cable.	
3.1.5	Slide camera to the right. Turn off the transilluminator. Turn on the lights. Pull out the white tab, then pull out the film tab with a slow, steady motion to remove the photograph. Allow the picture to develop for 30 seconds and then peel the picture from its backing. Carefully discard the backing while avoiding the caustic chemical developers.	
3.1.6	Label the picture with the case number and initials.	

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<div data-bbox="342 287 1557 359"> <p>3.1.7 Always clean off the roller with a wet paper towel containing isopropanol when a new roll of film is loaded.</p> </div> <div data-bbox="245 390 1170 426"> <p>3.2 Photographing a gel using an Ultraviolet Viewing Cabinet and Camera</p> </div> <div data-bbox="342 457 1122 493"> <p>3.2.1 Place gel (in its tray) into the Ultraviolet Viewing Cabinet.</p> </div> <div data-bbox="342 525 1557 596"> <p>3.2.2 Using the eyepiece on the Ultraviolet Viewing Cabinet, position the gel so that it is in the field of view of the camera.</p> </div> <div data-bbox="342 627 956 663"> <p>3.2.3 Remove the eyepiece and attach the camera.</p> </div> <div data-bbox="435 695 958 730"> <p>The following are suggested, initial settings:</p> </div> <div data-bbox="532 762 654 795"> <p>1 sec, f/11</p> </div> <div data-bbox="342 827 774 863"> <p>3.2.4 Position filter over lens area.</p> </div> <div data-bbox="342 894 1364 930"> <p>3.2.5 Take the picture by pressing the shutter release button on the handle of camera.</p> </div> <div data-bbox="342 961 1557 1064"> <p>3.2.6 Pull out the white tab, then pull out the film tab with a slow, steady motion to remove the photograph. Allow the picture to develop for 30 seconds and then peel the picture from its backing. Carefully discard the backing while avoiding the caustic chemical developers.</p> </div> <div data-bbox="342 1096 1557 1167"> <p>3.2.7 Label the picture with the case number and initials, as well as at least one well number so the gel may be properly oriented.</p> </div> <div data-bbox="342 1199 1557 1270"> <p>3.2.8 Always clean off the roller with a wet paper towel containing isopropanol when a new roll of film is loaded.</p> </div> <div data-bbox="245 1302 1308 1337"> <p>3.3 Scanning a gel using the FMBIO II Fluorescent Image Analysis System - Optional</p> </div> <div data-bbox="342 1369 1557 1440"> <p>Follow the procedure outline in Appendix F, Fluorescent Detection of the Electrophoresis Gel-FMBIO II for scanning a product gel.</p> </div> <div data-bbox="1469 1703 1557 1738"> <p>◆END</p> </div>	